



## Hopunion CBS, LLC

### US CLUSTER

<b>Pedigree</b>	Not known but possibly a result of a cross between an English variety and an American male hop.
<b>Maturity</b>	Early to late
<b>Yield</b>	1900 – 2400 kg. /ha. or 1700 – 2140 lb. /ac.
<b>Growth Habit</b>	Vigorous but manageable
<b>Disease/Pest Susceptibility</b>	Very susceptible to downy mildew. Not seriously affected by Prunus necrotic ring-spot virus.
<b>Pickability/Drying/Baling</b>	Good
<b>Cone-Structure</b>	Medium-compact cone
<b>Lupulin</b>	Plentiful, yellow in color
<b>Aroma</b>	Floral and spicy
<b>Alpha Acids</b>	5.5 – 8.5% w/w
<b>Beta Acids</b>	4.5 – 5.5 %w/w
<b>Co-Humulone</b>	36 – 42% of alpha acids
<b>Storageability</b>	80 – 85% alpha acids remaining after 6 months storage at 20° C
<b>Total Oil</b>	0.4 – 0.8 mls/100 grams
<b>Myrcene</b>	45 – 55% of whole oil
<b>Humulene</b>	15 – 18% of whole oil
<b>Caryophyllene</b>	6 – 7% of whole oil
<b>Farnesene</b>	<1% of whole oil
<b>General Trade Perception</b>	An excellent general purpose hop with medium and well-balanced bittering potential and no undesirable aroma properties.
<b>Possible Substitutions</b>	Galena, possibly US Northern Brewer
<b>Typical Beer Styles</b>	Ale (Aroma), Lager (Bittering), Stout
<b>Additional Information</b>	For years the standard US cultivar, improved mass selection in the mid-sixties. Limited acreage grown today.
<b>Personal Notes:</b>	